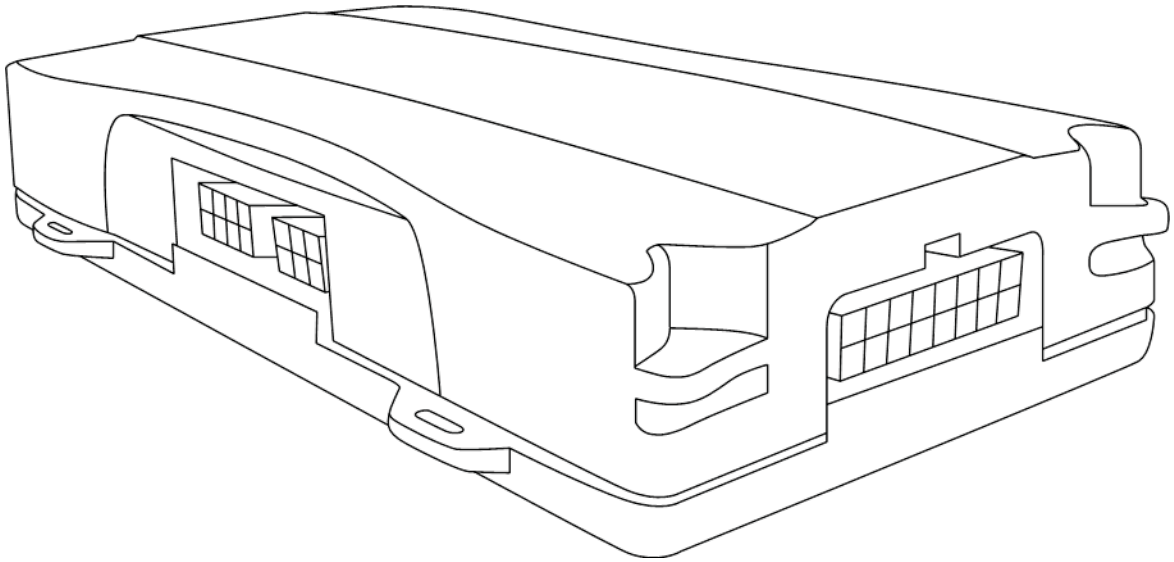
Verizon Networkfleet

5000 PRODUCT LINE INSTALLATION GUIDE

5500 Diagnostic Hardware (Light/Medium/Heavy Duty) | 5200 Non-Diagnostic Hardware (Universal)



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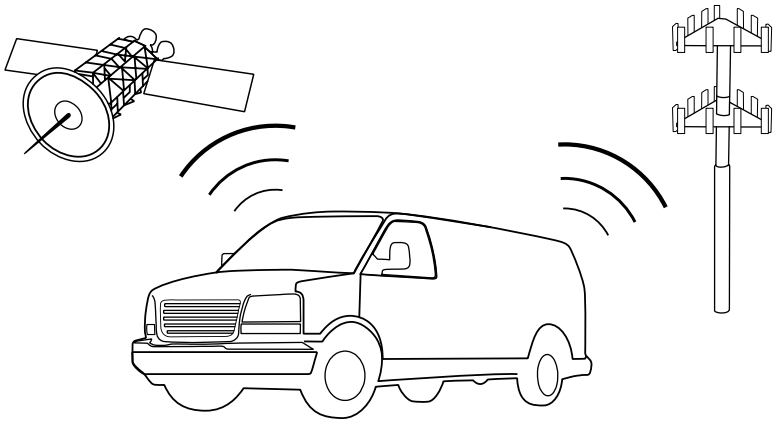
Registration Form

Fill out the enclosed registration form before completing installation.

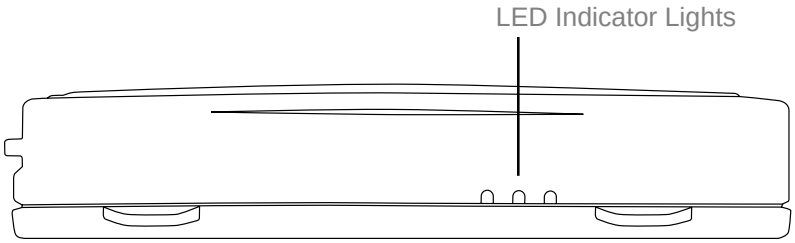
networkfleet 5000 productline Vehicle Registration Form
REGISTRATION INSTRUCTIONS
For self installations, please complete this form, then log in to: www.networkfleet.com. In the top navigation area, click on the Admin tab. Next, click the Registration button to complete the process using the data on this form.
For Networkfleet Certified Installers, please fax your completed registration form to 866.616.2131.
For troubleshooting tips, please see the back of this card.
Questions? Contact Networkfleet Customer Care at 866.227.7323

Record the following information:
Vehicle Identification Number (VIN) | License Plate | Year | Make | Model
Unit's Serial number (10 digits)



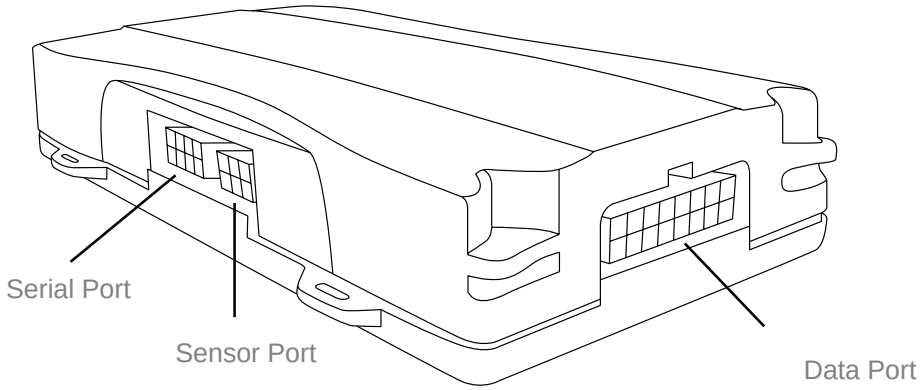
Installation Tip:
Metal walls and tall buildings may interfere with the reception from GPS satellites and the cellular network. Perform installation when the vehicle is in clear view of the sky. Conduct final installation verification after the vehicle has been running outside for 15 minutes.

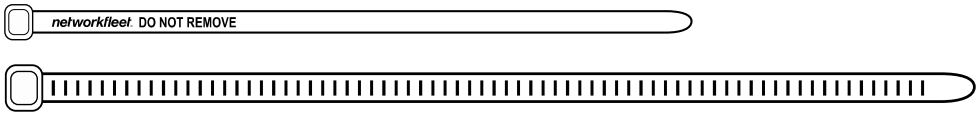
5000 Product Line Unit Overview



Side of Unit

Note: All 5500 and 5200 units are shipped with a knock-out panel covering the sensor/serial ports. In order to access those ports, you must use an X-ACTO knife to slice off 2 of the 3 tabs in order to remove the knock-out panel.





Zip Ties (x4)

Before installing a unit, verify that the vehicle's battery voltage is at least 12.5 V. If the voltage is lower than 12.5 V, the battery's health may need to be verified by a professional to determine if the battery needs to be replaced. While the 5000 series units go into a low power mode, the units still draw an average of 16 mA. Also, having two or more devices plugged into the OBD-II port and/or the auxiliary port results in additional current draw from the battery.

Prior to installing the Networkfleet device, please start the vehicle and note any indicator lights showing on the vehicle console which show any vehicle issues, should they be present.

Harness Options for the 5000 Product Line

Prior to installation, you must select and order the appropriate harness for your vehicle type. The Light/Medium Duty OBD-II Harness and the Heavy Duty Harnesses are compatible with both the 5500 and 5200 hardware devices. Please refer to the list below to verify harness compatibility for each of the 5000 series devices:

5500 (Diagnostic Capable Hardware)

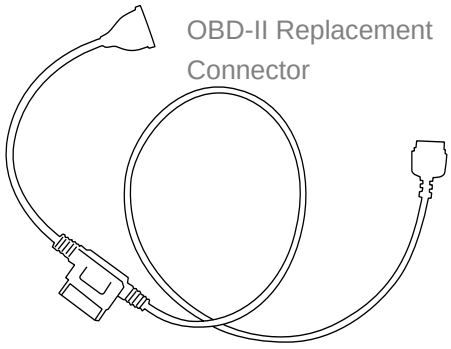
- Light/Medium Duty OBD-II Harness
- Heavy Duty Harnesses (6-pin, 9-pin, or 9-pin “D”)
- Quick Install Harness

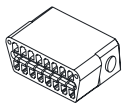
5200 (Non-Diagnostic Hardware)

- Universal Harness
- Light/Medium Duty OBD-II Harness
- Heavy Duty Harnesses (6-pin, 9-pin, or 9-pin “D”)
- Quick Install Harness

Embedded Solutions

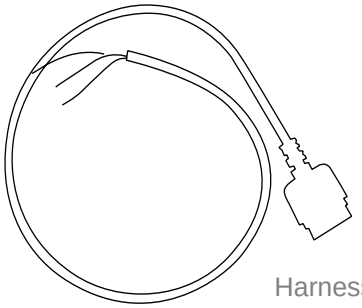
Light/Medium Duty OBD-II Harness

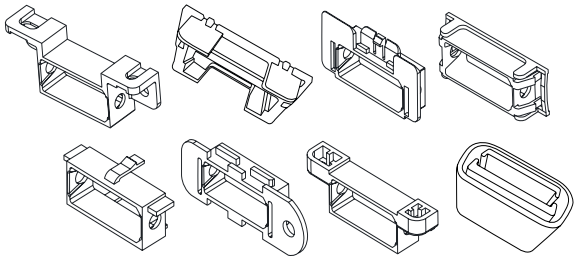




Core Connector for the Light/Medium Duty OBD-II Harness (X1)

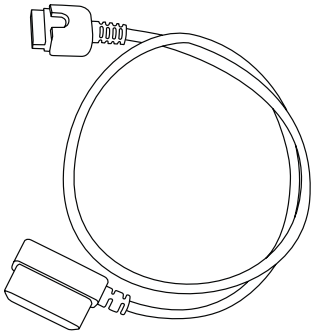
Universal Harness (5200 Only)





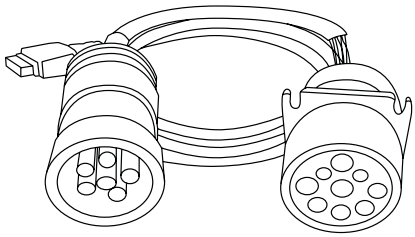
Harness Adapters for the Light/Medium Duty OBD-II Harness (X8)

Quick Install Harness

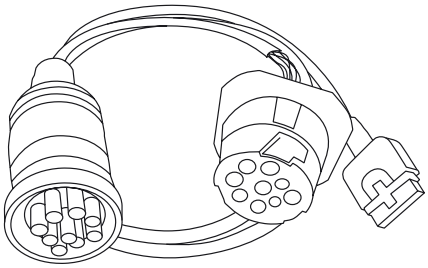


Heavy Duty Harnesses

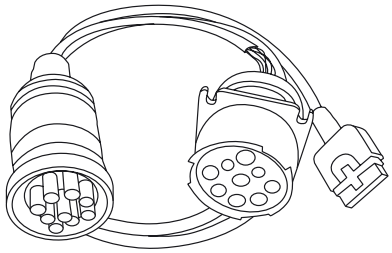
There are 3 different harness options for Heavy Duty vehicle installations:
6-pin Harness, 9-pin Harness, and 9-pin “D” Harness.



6-pin Harness



9-pin “D” Harness



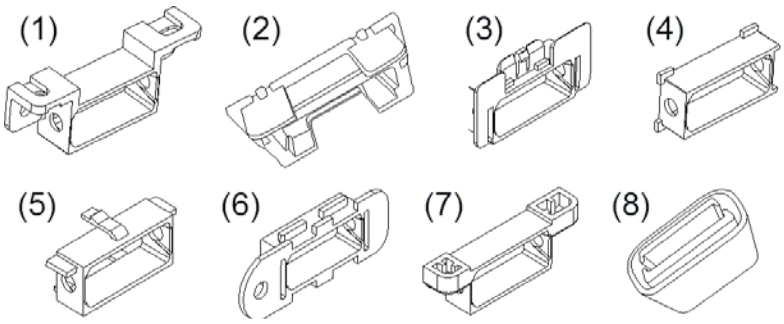
9-pin Harness

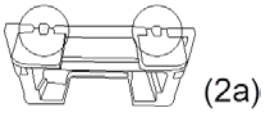
Light/Medium Duty OBD-II Harness Installation

Select an Adapter that most resembles the shape of the OBD-II port of the vehicle.
Use these guidelines to match an adapter to the vehicle it is most likely to fit (each adapter is stamped with a number).

Ford, GM (1), (6), or (8)
Honda, Lexus, Toyota, Chrysler (2)
Toyota*, Chrysler* (2a)
GM, Saturn (3) | Mercedes, BMW (4)
Porsche, Audi, Volkswagen (5)
Volvo (6) | Saab (7)

Note:
For certain Toyota and Chrysler vehicles, you may need to adjust the #2 adapter by removing the clips on the top and bottom of the adapter. To the right is an example of the adjusted adapter labeled (2a).





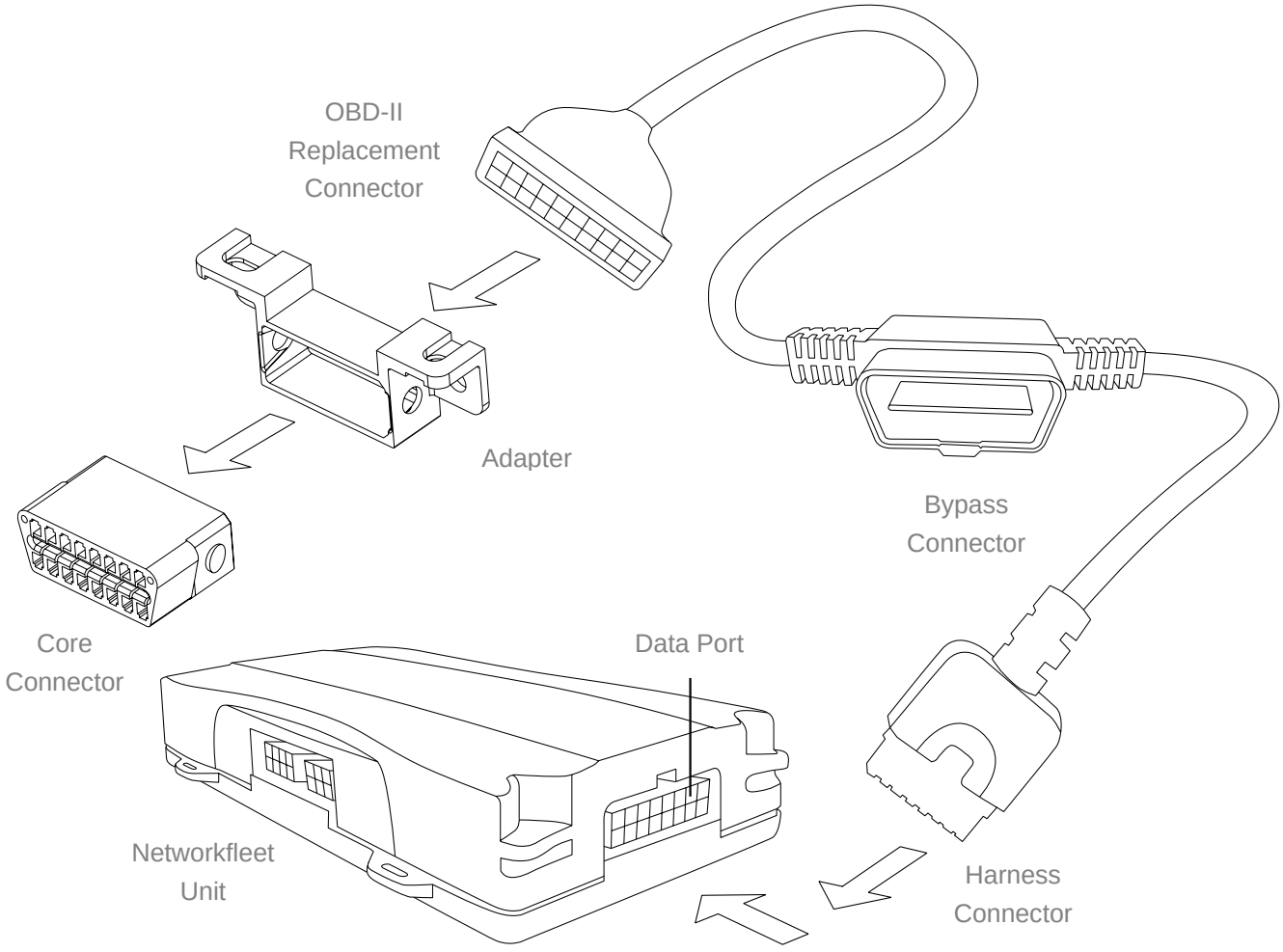
Light/Medium Duty OBD-II Harness Installation

Core Connector Assembly

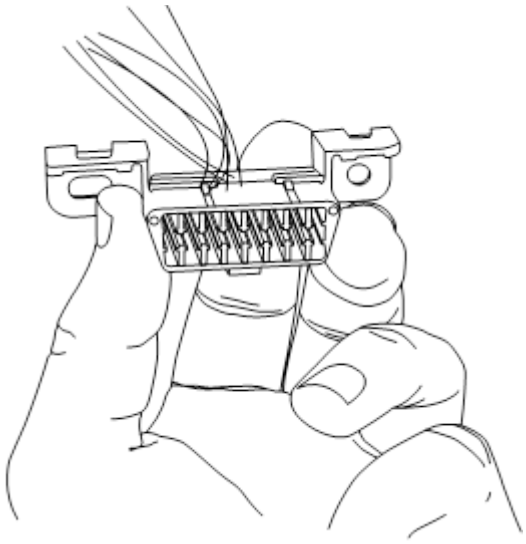
1. Snap the selected plastic adapter to the back of the Core Connector.
2. Attach the Core Connector to the OBD-II Replacement Connector.

Data Port Connection

Connect the Harness Connector to the Data Port.



Light/Medium Duty OBD-II Harness Installation

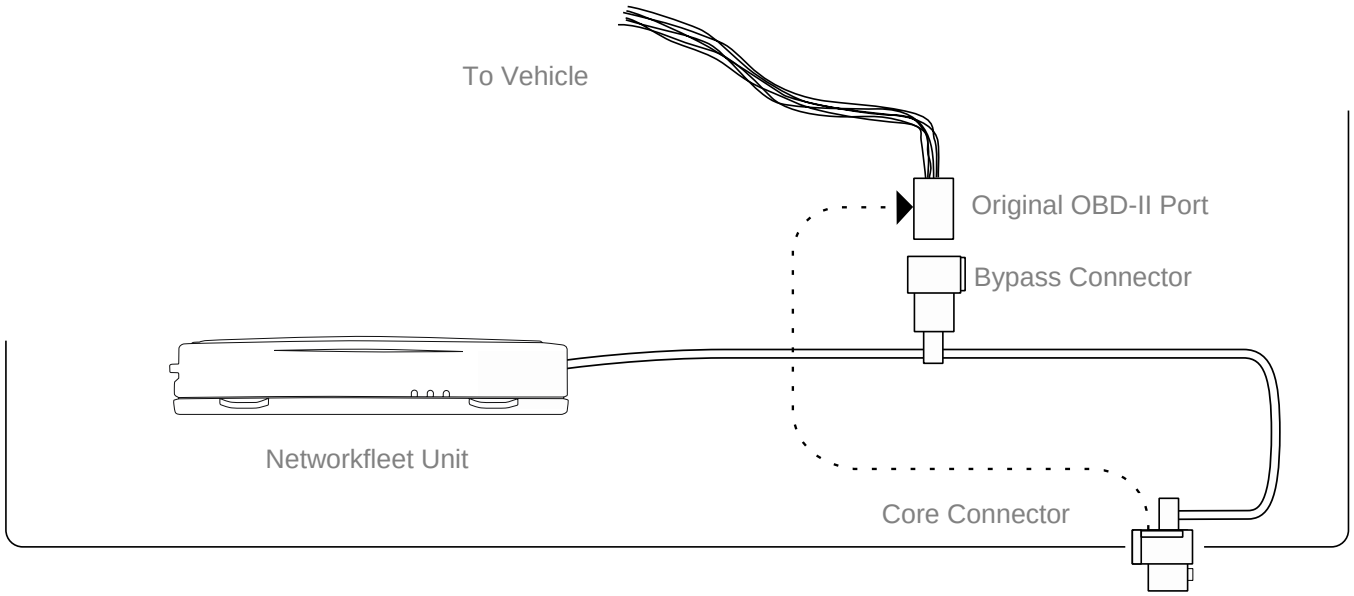


Connecting to the OBD-II Port

1. With the vehicle's engine OFF, remove the vehicle's OBD-II port. The OBD-II Connector may be hidden behind a hush panel.
    a. To remove the connector, you may need to remove screws or depress the clips.

2. Connect the Bypass Connector to the vehicle's OBD-II port that was previously removed.

3. Attach the Core Connector to the position where the original OBD-II connector was installed. Secure it with the screws or clips removed from the OBD-II Connector's original position (if applicable).



- 5500 Series units installed with a light duty harness cannot be installed along with lift gates that are plugged into the OBD port. Refer to the **TIB: Lift Gates and Unit Interference**.
- If other devices besides the 5500 series unit need to be plugged into the OBD port, please refer to the **TIB: Scan Tool Detection and Aftermarket Devices**.

Heavy Duty Harness Installation

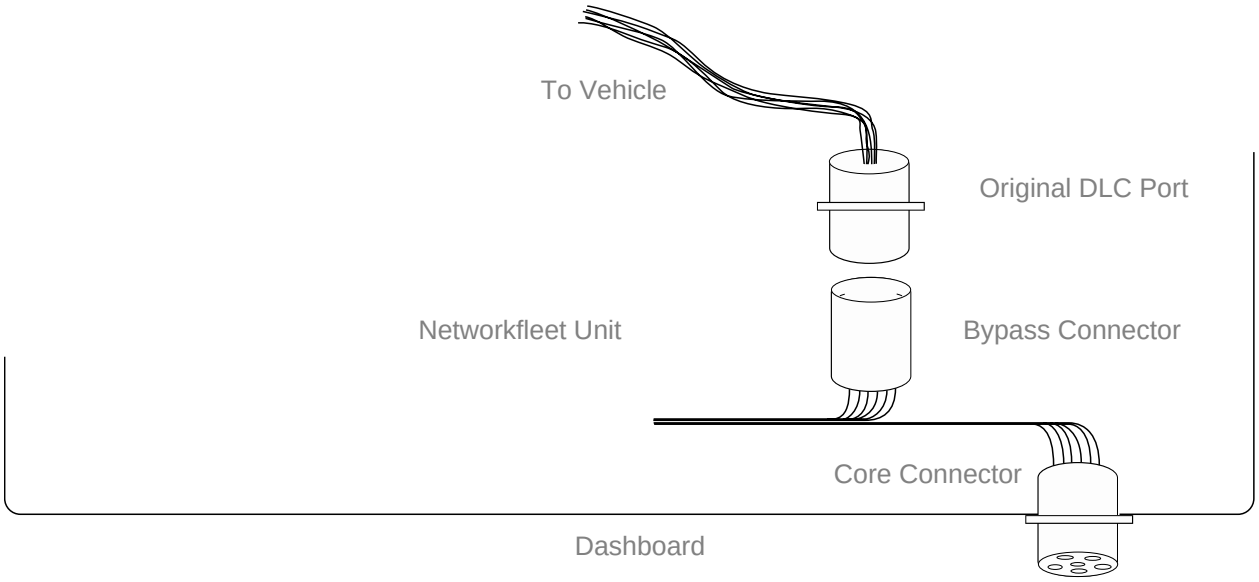
Connecting to the Diagnostic Link Connector (DLC) Port

1. With the vehicle's engine OFF, unscrew the DLC port from its position under the dashboard*. In most cases, the DLC port is located under the dashboard on the left side of the steering wheel, facing toward the floorboard.

2. Plug the Bypass Connector of the harness into the DLC port that was previously removed from the vehicle in step 1. For the 9-pin connector, turn the rotating cap clockwise to lock into place.

3. Mount the Core Connector of the harness into the place in which the DLC port originally resided.

*Note: DLC Port Connector may also be located near or behind the driver seat.



Universal Harness Installation

Note: Please ensure that the Driver Door is OPEN during the ENTIRE installation process.

Black Wire (one pair) - Ground

- With the vehicle's engine OFF, attach both the Black Wires directly to a chassis ground point or to a ground line (chassis ground) by splicing directly to a ground lead or by using a poke and wrap method.

Red Wire (one pair) - Continuous Power

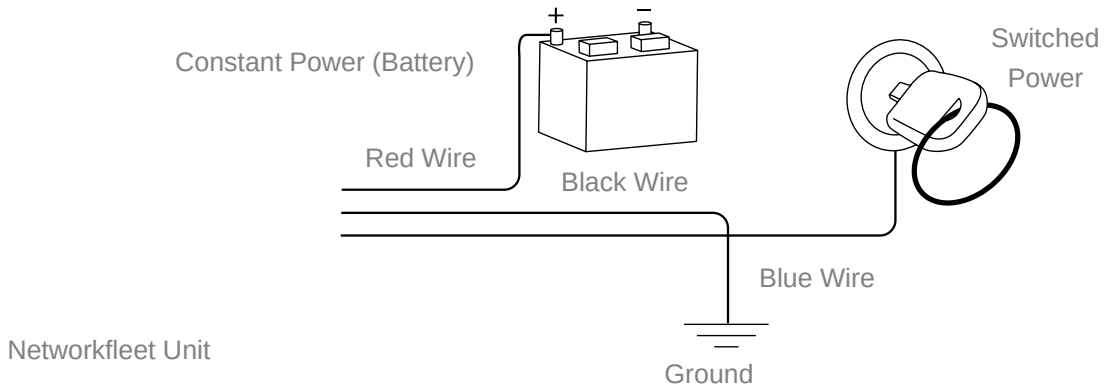
- With the vehicle's engine OFF, use the voltmeter to locate a 12-volt BATTERY lead and attach both the Red Wires by splicing directly to the lead or by using a poke and wrap method. If attaching to a fused lead or using an in line fuse (not necessary), verify that it is at least 5 amps.
- To determine a true Continuous Power source:

1. Ensure the Driver Door is OPEN
2. Select a wire
3. With vehicle's engine OFF, use a voltmeter to measure the DC voltage on the wire. It should show 12 VDC or higher.

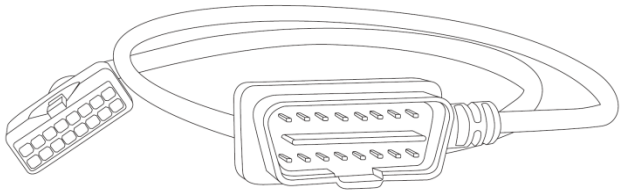
Blue Wire - Switched Power

- With the vehicle's engine OFF, use the voltmeter to locate an IGNITION line with switched power and attach the Blue Wire to the line by splicing directly to the lead or by using a poke and wrap method.
- Do NOT use an inline fuse on this line.
- Do NOT use accessory Power.
- The red, black and/or blue wires can be extended by using the same gauge wire if needed.
- To determine a switched power source:

1. Ensure the Driver Door is OPEN.
2. Select a wire.
3. With engine OFF, use voltmeter to measure the DC voltage on the wire. It should show 0 VDC.
4. Turn the key to the ON position. Confirm the voltage is 10 Volts or higher.
5. Turn the key to the RUN position and while the vehicle is starting, confirm the voltage is 9 Volts or higher.
6. Start the engine and while the vehicle is running confirm that the voltage on the same wire is 13.1 VDC or higher.
7. Turn the vehicle's engine OFF and confirm that the voltage on the same wire is 0 VDC.



Quick Install Harness Installation



1. Open box. Make sure all necessary components are inside for proper install. Harnesses are shipped separately and cannot be returned once opened.

2. Locate the DLC or OBD-II port for installation and plug-in the DLC side of the Quick Install Harness, then plug-in the vehicle harness side of the Quick Install Harness into the Networkfleet device.

3. Verify successful installation with LED Indicator Lights sequence on side of unit.
    a. Start the vehicle's engine. All lights (Red, Yellow, and Green) on the device should turn on solid for 15 seconds and then begin blinking rapidly (twice a second).
    b. The device is operating normally when the rapid blinking ceases and the Green and Yellow lights begin to blink in a slow pattern (ON for 5 seconds and OFF for 1 second).
    c. The vehicle must be idled or driven for at least 15 minutes to reach normal operating mode and ensure activation is complete.
    d. Call Customer Care at 866.227.7323 (option 5) to verify successful install and to acquire a case number.

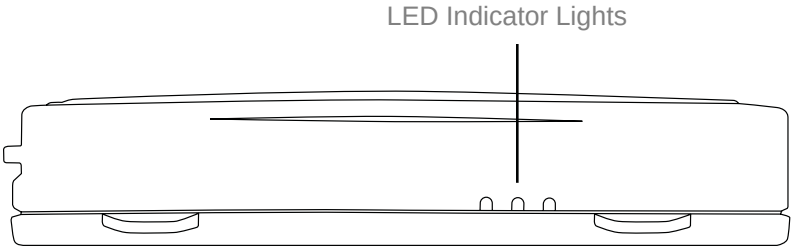
4. Completing Installation: Before securing the device under the dashboard, make sure that you have recorded the full VIN (17 digits), hardware serial number (10 digits) and odometer reading on the registration form. Also verify that you have checked the light indicators.

5. Securing the Device: Use the enclosed long zip ties to fasten the hardware securely to a stable bracket or wire bundle high under dash. Unit must be facing up (Networkfleet logo side) and with no metal obstructions above it that would block the signal; check that the green LED is blinking in a slow pattern, which verifies that the unit is getting GPS data.

6. After installation, provide the registration form to the fleet manager for delivery to Networkfleet or if you are a Networkfleet Certified Installer, please fax to 866.616.2131 or email to **installs@networkfleet.com**

Verifying Successful Installation

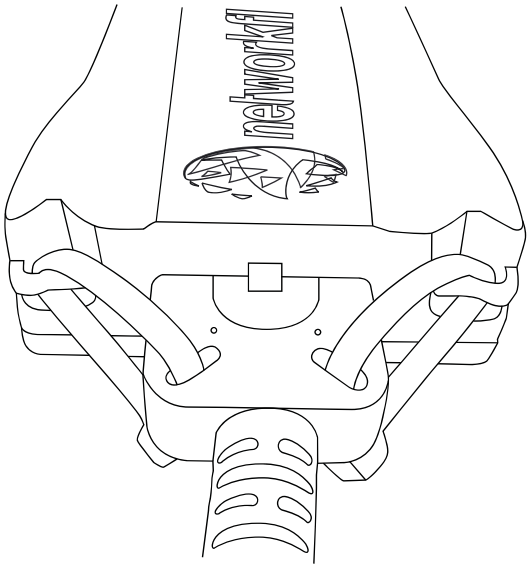
1. Start the vehicle's engine. All lights (Red, Yellow, and Green) on the device should turn on solid for 15 seconds and then begin blinking rapidly (twice a second).
2. The device is operating normally when the rapid blinking ceases and the Green and Yellow lights begin to blink in a slow pattern (ON for 5 seconds and OFF for 1 second). The Red light pattern will continue to vary and should not be used to verify installation.
3. The vehicle must be idled or driven for at least 15 minutes to reach normal operating mode and ensure activation is complete.



Side of Unit

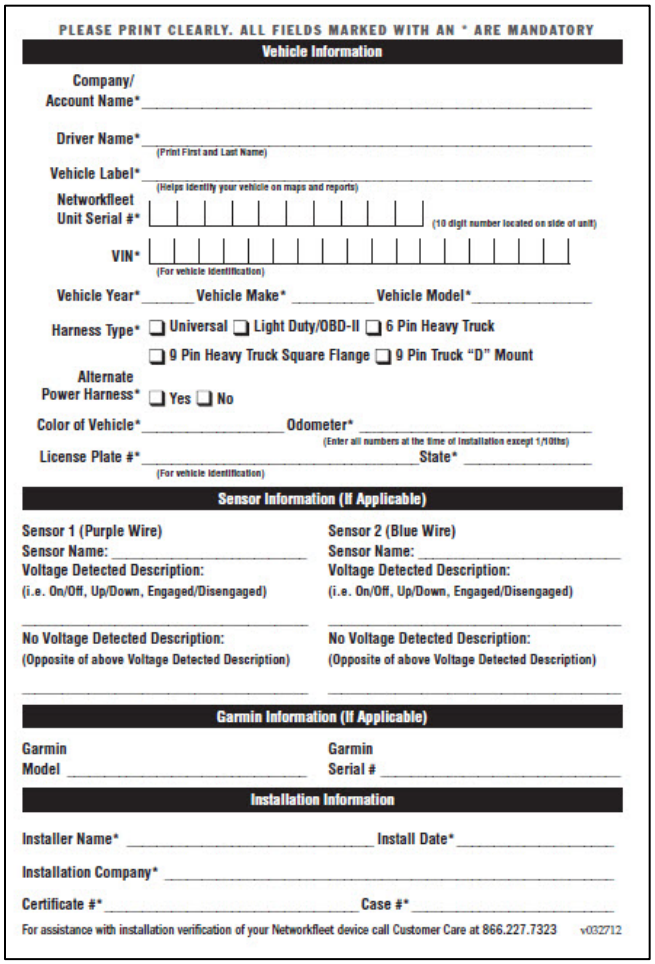
Creating Tamper Evidence

Once the vehicle harness is plugged in, slide the Networkfleet branded yellow zip ties through the two slots provided on the harness connector. Once the zip ties are in place, tighten and remove the excess plastic. If possible, position the zip ties so that the “DO NOT REMOVE” message is showing.



Completing Installation

Before securing the device under the dashboard, make sure that you have recorded the VIN, hardware serial number and odometer reading on the registration form. Also verify that you have checked the light indicators. After installation, provide the registration form to the fleet manager for delivery to Networkfleet or if you are a Networkfleet Certified Installer, please fax to 866.616.2131 or email to **installs@networkfleet.com**.



PLEASE PRINT CLEARLY. ALL FIELDS MARKED WITH AN * ARE MANDATORY

Vehicle Information

Company/ Account Name* _____

Driver Name* _____ (Print First and Last Name)

Vehicle Label* _____ (Helps identify your vehicle on maps and reports)

Networkfleet Unit Serial #* _____ (10 digit number located on side of unit)

VIN* _____ (For vehicle identification)

Vehicle Year* _____ Vehicle Make* _____ Vehicle Model* _____

Harness Type* ❑ Universal ❑ Light Duty/OBD-II ❑ 6 Pin Heavy Truck ❑ 9 Pin Heavy Truck Square Flange ❑ 9 Pin Truck "D" Mount

Alternate Power Harness* ❑ Yes ❑ No

Color of Vehicle* _____ Odometer* _____ (Enter all numbers at the time of installation except 1/10ths)

License Plate #* _____ State* _____ (For vehicle identification)

Sensor Information (If Applicable)

Sensor 1 (Purple Wire)
Sensor Name: _____
Voltage Detected Description:
(i.e. On/Off, Up/Down, Engaged/Disengaged)
_____
No Voltage Detected Description:
(Opposite of above Voltage Detected Description)
_____

Sensor 2 (Blue Wire)
Sensor Name: _____
Voltage Detected Description:
(i.e. On/Off, Up/Down, Engaged/Disengaged)
_____
No Voltage Detected Description:
(Opposite of above Voltage Detected Description)
_____

Garmin Information (If Applicable)

Garmin Model _____ Garmin Serial # _____

Installation Information

Installer Name* _____ Install Date* _____

Installation Company* _____

Certificate #* _____ Case #* _____

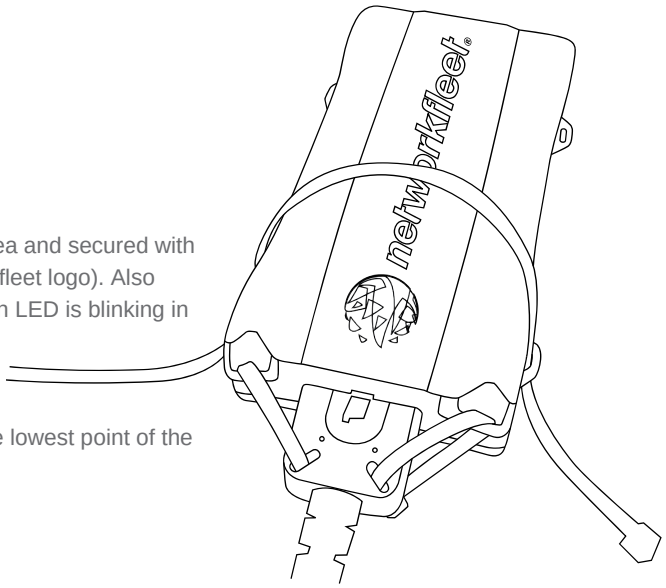
For assistance with installation verification of your Networkfleet device call Customer Care at 866.227.7323 v032712

Securing the Device

Use zip ties to fasten the hardware securely to a stable bracket or wire bundle under the dash.

IMPORTANT: The device must be installed high in the dashboard area and secured with the top of the unit facing the sky (the side of the unit with the Networkfleet logo). Also verify that the device is not covered by metal and check that the green LED is blinking in a slow pattern, which verifies that the unit is getting GPS data (as explained on page 13).

To avoid damage from condensation, ensure that the unit is not at the lowest point of the installation and secure it away from moving parts.



Window-Mount GPS Antenna

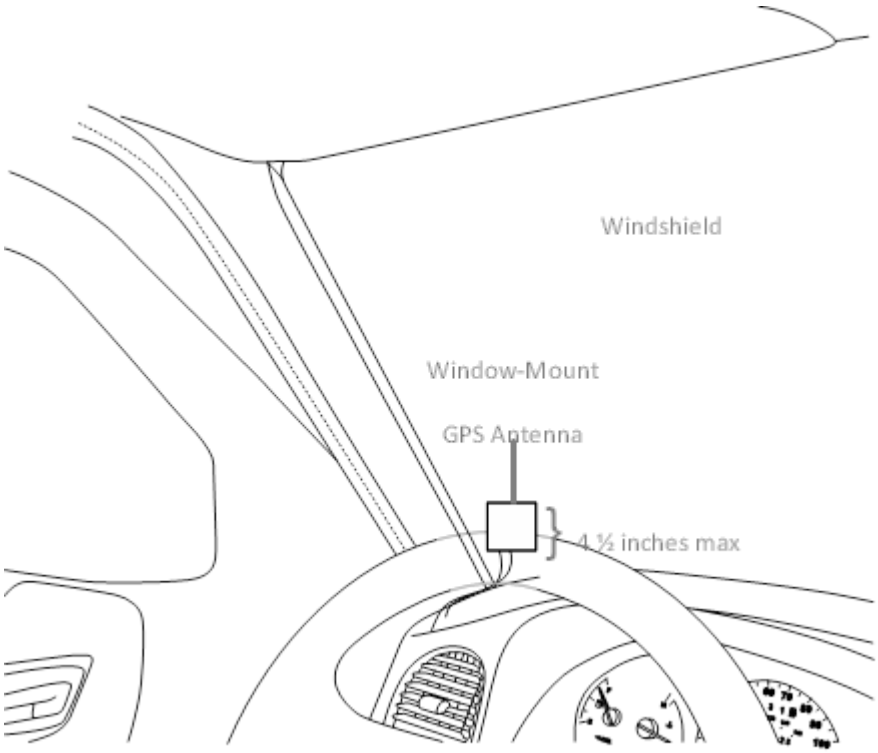
1. Units are shipped with a knock-out panel covering the sensor/serial ports. First, use an X-ACTO knife to slice off 2 of the 3 tabs in order to remove the knock-out panel.
2. Use enclosed alcohol preparation pad to clean the inside windshield where the antenna is to be placed. For proper operation, the antenna should be placed on flat, clear glass on the driver's side interior lower corner of the windshield.

Ensure that the antenna does not extend more than 4 ½ inches from the bottom of the interior windshield and is located outside the area swept by the windshield wipers.

Do NOT place the antenna in the following areas - Behind stickers or decals already on the glass, on the shade band of the glass, on a curved area of the glass, on a moist or damp area of the glass, or on an area that will obstruct the driver's view

3. Connect the window-mount GPS antenna to the serial port on the side of the unit.
4. Run the cables up the door seam or up through the dashboard.
5. Remove the protective strip from the antenna to expose the adhesive.
6. Carefully affix the antenna to the glass that was prepped in Step 2. Press the antenna firmly to the glass while being careful not to damage the antenna.

Installation Tip: Please note that the ideal temperature range to perform the installation is between 70°F to 100°F (21°C to 38°C) with a minimum suggested application temperature of 60°F (15°C).



Sensor

The 5500 and 5200 devices include a sensor port for monitoring various voltage events occurring within the vehicle such as: PTO engagement/disengagement, secondary engine on/off, and door open/close.

Please review prior to performing sensor installation:

- Installer shall use only a digital multi-meter to verify that line Voltage is within the product tolerances.
- Installer shall use 24 gauge (minimum) wires for installation.
- Electrical connectors must be used when attaching sensor wires.
- Voltage testing should always be performed with a vehicle door open to avoid retained accessory power issues.

The 5500/5200 comes equipped with two sensor inputs. Each sensor will be associated with a pair of input wires. One pair of wires (Purple, Black) will be associated with Sensor 1 and the other pair of wires (Blue, Black) will be associated with Sensor 2.

Use the Black wire of each pair to make a secure vehicle ground connection. Then, connect the other wire (Blue or Purple) of each pair to the desired signal to be monitored.

If only one wire pair (sensor input) is to be used, the other pair must be twisted together and insulated via heat shrink or some other secure means to prevent contact with any vehicle structures and to ensure it does not interfere with any moving parts in the vehicle.

The sensor wires can be extended with the same gauge wire if needed.

The signal to be monitored should have two voltage states: One where there is no voltage (i.e. zero volts when referenced to ground) and another that falls in the range +5 to +24 or -5 to -24 volts. The signal being monitored should be capable of supplying 3 mA when a voltage is present. It is important that the voltage signal be tested to ensure it is continuously providing the necessary voltage and current when in the “on” or “active” position.

The following table shows how the signals are interpreted.

Wire A (Black)	Ground or reference for wire B
Wire B (Blue or Purple)	Off (-3V < x < +3V) On (-24V < x < -5V or +5V < x < +24V) Undefined (-5V < x < -3V or +3V < x < +5V)

On a system where the PTO and the Sensor use the same battery:

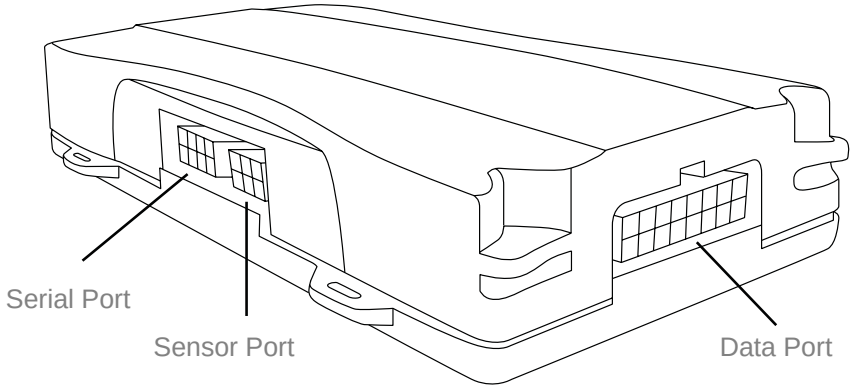
- Connect the Black Sensor Wire to Battery, which will be the reference.
- Connect the Purple or Blue Wire to the PTO switch.

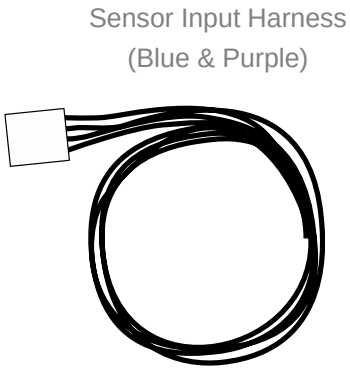
On a system where the PTO and the Sensor use different batteries:

- Connect the Black Sensor Wire to Battery, which will be the reference.
- Connect the Purple or Blue Wire to the PTO switch.

To Install

1. Units are shipped with a knock-out panel covering the sensor/serial ports. First, use an X-ACTO knife to slice off 2 of the 3 tabs in order to remove the knock-out panel.
2. Connect the Sensor Input Harness to the Sensor Port on the 5500 or 5200 device.
3. Verify installation by checking the LED behavior of the device (see page 23) and call Customer Care at 866.227.7323 and select Option 5.
4. Before securing the device under the dashboard, make sure you have recorded the appropriate information on the Sensor Installation Card included with the Sensor Input Harness. Once all information is recorded, follow the instructions detailed on the card to update your fleet on **www.networkfleet.com**.





Garmin®

Networkfleet is ONLY compatible with Garmin devices that support Fleet Management Interface Version 2.6 and higher. The list of compatible units can be found here: **www.garmin.com/solutions/pnd/supportedproducts.jsp** (look for "Supports Version 2.6 Fleet Management Interface" in the description).

All Garmin devices, even if they support Fleet Management Interface Version 2.6, will need a firmware update prior to installation. Please contact your sales representative or Networkfleet Customer Care to obtain update instructions.

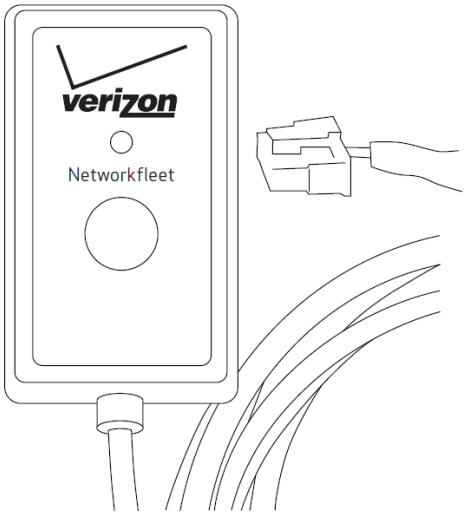
To Install

1. Units are shipped with a knock-out panel covering the sensor/serial ports. First, use an X-ACTO knife to slice off 2 of the 3 tabs in order to remove the knock-out panel.
2. Connect the modified Garmin FMI Cable to the Serial Port on the 5500 or 5200 device.
3. Plug the other end of the modified Garmin FMI cable into the Garmin device.
4. Required: To verify installation and to enable Garmin functionality, call Customer Care at 866.227.7323 and select Option 5.
5. Before securing the device under the dashboard, make sure you have recorded the appropriate information on the Garmin Installation Card included with the modified Garmin FMI Cable. Once all information is recorded, follow the instructions detailed on the card to update your fleet on **www.networkfleet.com**.

Bluetooth Expansion Module

The Bluetooth Expansion Module (BTE) provides Bluetooth connectivity between 5500 devices and the J. J. Keller™ compliance solution. The pigtail on the BTE can be connected to either a modified Garmin FMI cable or a window mount GPS antenna.

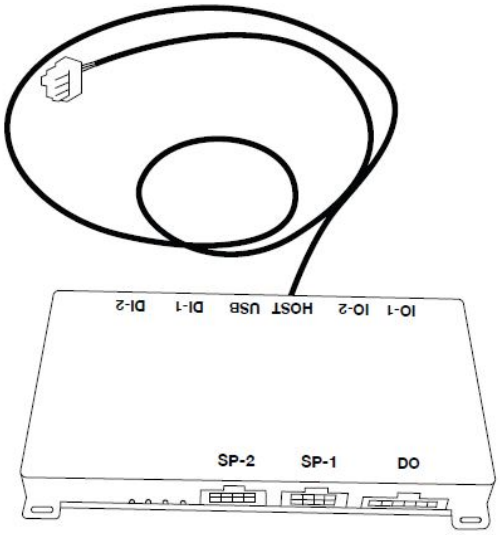
Important: If BTE is used, the modified Garmin FMI cable should only be connected to one device (BTE). Leave the other end of the modified cable open.



BTE Installation Procedure

1. 5000 series units are shipped with a knock-out panel covering the sensor/serial ports. Use an X-ACTO knife to slice off 2 of the 3 tabs and remove the knock-out panel.
2. If adding the BTE to an existing 5500 installation **you must remove power from the 5500 device or request an over the air device reset** in order for the BTE module to be recognized and initialized.
3. The preferred mounting location is on the right side of the steering column dash panel. However, mounting locations may vary based on customer preferences, vehicle layout, and locations of existing 3rd party devices. Always clarify the mounting location with the customer point of contact before completing installation.
4. Clean the location where the BTE will be mounted with the provided alcohol wipe.
5. Peel and remove the backing tape from the BTE device and firmly affix it to the mounting area.
6. Route the cable from the BTE unit to the 5500 unit's pin serial port.
7. Connect the modified 8 pin male side of the cable to the serial port on the 5500 device.
8. If you are also installing the BTE module in tandem with a Garmin® using an FMI cable or external antenna, connect the male end of the 8 pin connector to the female end of the BTE pigtail.
9. Before securing the device under the dashboard, make sure you have recorded the appropriate information on the registration card included with the BTE module.
10. To verify installation, call Verizon Networkfleet Customer Care at 866.227.7323 and select Option 5. Notify your account SSP administrator that vehicle is now eligible for J. J. Keller enrollment.

Port Expansion Module (PEM)



Note: To enable PEM functionality, the 5000 series device may need an over-the-air firmware update. Customer Care will determine this during the installation verification call.

As indicated on page 16, the PEM should NOT be installed over, or covering the top of the Networkfleet unit with the logo.

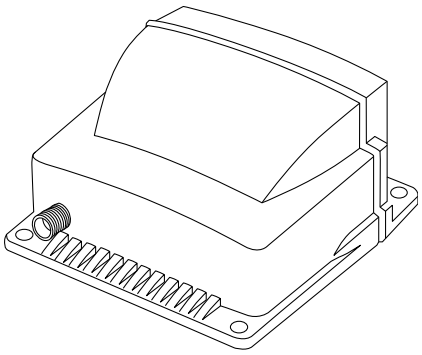
Make appropriate connections to the PEM via the information below:

	Connectivity Reference Table
IO-1	Future Functionality
IO-2	Future Functionality
HOST	Connection to the 5000 unit.
USB	NMEA Feed For more information about the NMEA feed, read the **TIB: NMEA Feed**.
DI-1	Digital input 1. This connector will host up to two sensors (pin out compatible with 5000 series).
DI-2	Digital input 2. This connector will host up to two sensors (pin out compatible with 5000 series).
DO	Future Functionality
SP-1	Serial port 1. This connector can host one or two accessories (with a correct cable) for connecting external devices such as Garmin FMI cable and Window-Mount GPS Antenna.
SP-2	Serial port 2. This connector can host one accessory for one connecting external device such as Garmin FMI cable or Window-Mount GPS Antenna.

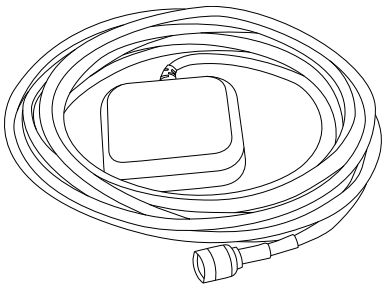
Installation Process:

1. If the 5000 Series unit is already installed, unplug the unit and proceed with the following steps.
2. Move any existing Garmin FMI Cable or Window-Mount GPS Antenna connected to the 5000 device to the PEM unit ports labeled SP-1 & SP-2.
3. Connect the HOST cable on the PEM unit to the 5000 Series unit serial port.
4. If sensors need to be installed, follow the instructions as indicated on pages 18-19.
5. Connect the 5000 Series unit to power and perform installation verification with Networkfleet Customer Care.

Quake Satellite Modem

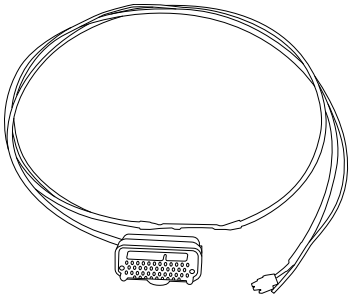


Note: Installation must be performed in a known good cellular coverage area. The preferred installation method and placement for the Quake satellite modem is mounted with zip ties under the dashboard, near the Networkfleet unit. If there is no room to do this, then the option is to secure the modem elsewhere in the vehicle with zip ties, screws, or strong two-sided tape as necessary



Installation Process:

1. Inspect the vehicle and determine where the Networkfleet unit and Quake satellite modem will be mounted.
2. Determine the path you will use to extend the Quake satellite modem antenna to its mounting location on the roof of the vehicle. Thoroughly clean the mounting location on the roof of the vehicle with an alcohol pad (not included) prior to affixing antenna.
    a. The antenna should be mounted in a location that offers full horizon-to-horizon visibility. It should be flat and parallel with the ground with the non-magnetic side pointing straight up.
    b. Avoid pinch points which can damage the coaxial cable or its shielding.
    c. Antenna exit points will vary based on the type of vehicle. Choose from the common points of exit listed below:
        i. Door/Windshield weather stripping
        ii. Trunk lid
        iii. Firewall pass-thru



3. Connect the Quake modem data harness cable and coaxial antenna cable to the Quake modem, then mount the Quake modem.
4. Connect the red wire from Quake modem data harness to a constant +12V battery source.
5. Remove Networkfleet unit knock-out plate and connect the Quake modem data harness to the Networkfleet unit's 8 pin serial port.
6. If the Networkfleet unit is not already mounted and powered up, mount the Networkfleet unit per existing installation standards and connect the Networkfleet unit to power using its power harness.
7. Start the vehicle and let it idle 15 minutes before calling Customer Care to verify the installation is successful.

For Antenna Removal

It is recommended that removal of the antenna happen at a time when the surface of the vehicle is at a low temperature.

Verifying Successful Installation/LED Behavior

To verify successful installation, call Customer Care at 866.227.7323 and select Option 5.

LED Behavior for Sensors: When the Sensor Input Harness is detected by the unit, all LEDs should be turned on solid for 10 seconds. When you engage Sensor 1 (if installed), the yellow LED shall blink rapidly (1/4 second) every time a transition is detected (on to off/off to on). When you engage Sensor 2 (if installed), the green LED shall blink rapidly (1/4 second) every time a transition is detected (on to off/off to on). The sensor installation verification will take one minute in total. Afterwards, all LEDs should be turned on for 10 seconds and then normal LED behavior will resume.

To ensure activation is complete, the vehicle must be idled or driven for at least 15 minutes to reach normal operating mode.

Note: If voltage does not meet the standards detailed in this guide, the installation may require the use of a relay switch to properly connect the sensor.

LED Behavior for Garmin: When the Garmin or window-mount GPS antenna is connected to the serial port, all LEDs should be turned on solid for 10 seconds. Afterwards, the red LED shall double blink every two seconds. The installation verification will take one minute in total, then all LEDs should be turned on for 10 seconds. Thereafter, then normal LED behavior will resume.

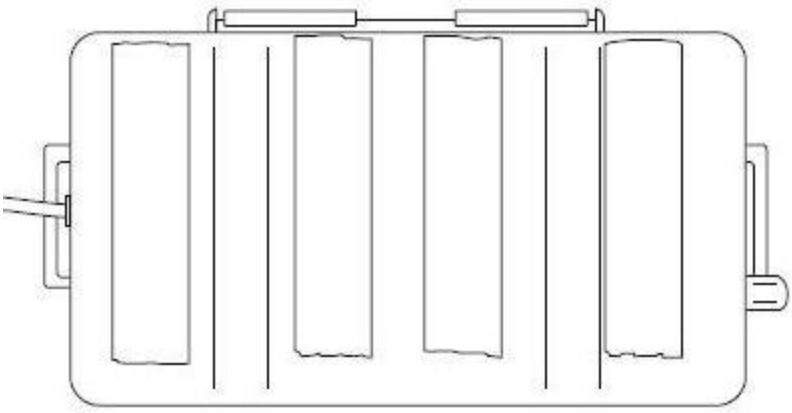
Please note that the blinking pattern shows successful connection with the device, but it does not verify successful communication with the Networkfleet website. To verify successful installation, call Customer Care at 866.227.7323 and select Option 5.

Pelican Micro Case

Note: The Pelican Micro Case is compatible with the Networkfleet 5200 device and the Universal Harness.

Installing the 5200 in the Pelican Micro Case

- Slide Universal Harness through the hole in the Pelican Micro Case.
- Connect the Harness to the unit and place the unit into the form fitting foam inside the Pelican Micro Case.
- Pull harness completely through so that there is no wire slack left in the box.
- To completely ensure water tightness, we recommend adding a bead of silicone on both the inside and outside of the harness hole opening
- Let silicone dry, then close and snap the lid shut



- Complete the connection of the harness to the vehicle found on page(s) 11-12.

Placement and Mounting of Pelican Micro Case

- The Pelican Micro Case and unit need to have a clear line of sight to the sky. Therefore, for the most reliable GPS coverage, the case cannot be obstructed by any metal and should be mounted outside of the vehicle.
- Mounting the Case
    - Completely clean and dry the area on the vehicle that you are going to mount the Micro Case
    - To mount the case, remove protective film from the 3M High Bond tape on the back of the Micro Case
    - Place case on vehicle per the noted mounting instruction above.
    - Press down with firm pressure to ensure bond strength to the vehicle.
    - **NOTE** 3M tape typically takes up to 72 hours to FULLY bond to both surfaces.

Appendix: Troubleshooting Light Indicators

Issue: **Red light continues to blink rapidly**

Solution:

- Verify that the unit is not surrounded by metal.
- Contact Customer Care to confirm network coverage availability and the SIM is active.

Issue: **Yellow light continues to blink rapidly**

Solution:

- Contact Customer Care to verify engine computer compatibility.
- If incompatible, install a Universal device (5200).

Issue: **Green light continues to blink rapidly**

Solution:

- With the vehicle's engine OFF, unplug the device for 3 minutes and check each item below before reconnecting.
- Verify that the unit is not surrounded by metal.

If using the window-mount GPS antenna:

- Disconnect the GPS Antenna wire and check the antenna wire and connector for damage.
- Reconnect the GPS antenna wire to the serial port.
- Reconnect device, start engine and keep the vehicle running or drive it for 10-15 minutes.

Issue: **Yellow light stays on solid**

Solution:

- Verify that you are in an area with wireless coverage.
- Wait 15 minutes with the vehicle's engine on.
- Verify web portal activation has been completed.

Issue: **Green light stays on solid**

Solution:

- Verify that the unit was installed properly. The side of the unit with the Networkfleet logo should be facing the sky.
- Make certain that the unit is not blocked by underground parking structures, metal, or trees.

If using the window-mount GPS antenna:

- Disconnect the GPS Antenna wire and check the antenna wire and connector for damage.
- Reconnect the GPS antenna wire to the serial port.
- Reconnect device, start engine and keep the vehicle running or drive it for 10-15 minutes.

Frequently Asked Questions

Q: Are the 5000 series harnesses interchangeable between all other Networkfleet product lines?
A: No.

Q: When installing the 5200 device, are fuses involved or can the device be “wired hot”?
A: We recommend splicing the 5200 harness to fused leads, though the device can be “wired hot” since there is an internal re-settable fuse. An in line fuse is not necessary, however if one is used, it should be at least 5 amps.

Q: Can the window-mount GPS antenna be installed in the A-Pillar?
A: No, the antenna is designed so that it will only function properly with a clear view of the sky which is best achieved by placing it on the glass windshield.

Q: I need to do a unit transfer. Can I re-use the window-mount GPS antenna? How do I remove it from the glass?
A: Yes, however the adhesive on the antenna is one-time use only and will not function properly after it is removed. Re-installation kits are available - contact Customer Care at 866.227.7323 for more information.

Instructions for Window-Mount GPS Antenna Removal
Because of the strength of the antenna adhesive, use a razor or Goo Gone (a household solvent) for removal.

1. To remove the antenna with a razor, peel a small section of the antenna off of the glass and slide the razor between the glass and the antenna.
2. Using a sawing motion, carefully remove the antenna from the glass and discard.

Contacting Networkfleet

If you have any additional questions, you may contact Networkfleet Customer Care:

Toll Free Number: 866.227.7323
Fax: 815.361.9215
Email: **customercare@networkfleet.com**
www.networkfleet.com

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